February 9, 2016

Coordination Group Meeting

CG Agenda Items
FGDC Committee Meeting Summaries
FGDC Business Update

Ken Shaffer
Deputy Executive Director
703-648-5740
kmshaffer@usgs.gov

Background

This presentation contains general update information on FGDC business activities. A list of the other agenda topics with references to their associated materials is also included. This presentation is intended as a read-ahead with only highlights of some of these activities being presented during the meeting. Questions on the included topics or content can be posed during the FGDC Business Update during the meetings.

It is the responsibility of the attendees to review the material prior to the meeting, as per CG standard operating procedures.

The general organization of the information is:

◆CG Agenda Items - Items on the Coordination Group (CG) agenda with references to any read-ahead materials

◆FGDC Committee Meeting Summaries

◆FGDC Business Update - Current FGDC initiatives/activities

CG Agenda Items

◆ National Digital Orthoimagery Subcommittee Report
   Contact: Shirley Hall, USDA, shirley.hall@wdc.usda.gov
   Read ahead: pending

◆ Marine and Coastal Spatial Data Report
   Contact: Tony LaVoi, NOAA, tony.lavoi@noaa.gov
   Read ahead: pending

◆ The Geospatial Platform Update
   Contact: Jim Irvine, Program Manager, ArdentMC Inc.
   Read ahead: Geospatial Platform Report

◆ Evaluation of NGDA and NSDI Plans
   Contact: Ivan DeLoatch, FGDC, ideloatch@usgs.gov
   Read ahead: Evaluation of the NSDI Strategic Plan, and the NGDA Management Plan

◆ Other Agency Announcements

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Committee's Decisions Summary

◆ Steering Committee:

- The meeting scheduled for March 24th has been rescheduled for Friday, April 8th, at the South Interior Auditorium from 10: 00 a.m. to 12:00 p.m.

  - Agenda is in development

Contact: Lucia Foulkes, FGDC OS, lfoulkes @usgs.gov

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National Geospatial Advisory Committee (NGAC)

- NGAC Paper: "*The Changing Geospatial Landscape – A Second Look*" adopted by NGAC

- Follow-up to 2008 NGAC Changing Landscape paper

- Describes recent and coming changes to technology, industry, usage

- Help to generate ideas for 2016 activities, transition papers, NSDI strategic plan, etc.

- Paper posted at: https://www.fgdc.gov/ngac/meetings/december-2015/the-changing-geospatial-landscape-second-look.pdf

THE CHANGING
GEOSPATIAL LANDSCAPE
A Second Look

A Report of the National Geospatial Advisory Committee
December 2015
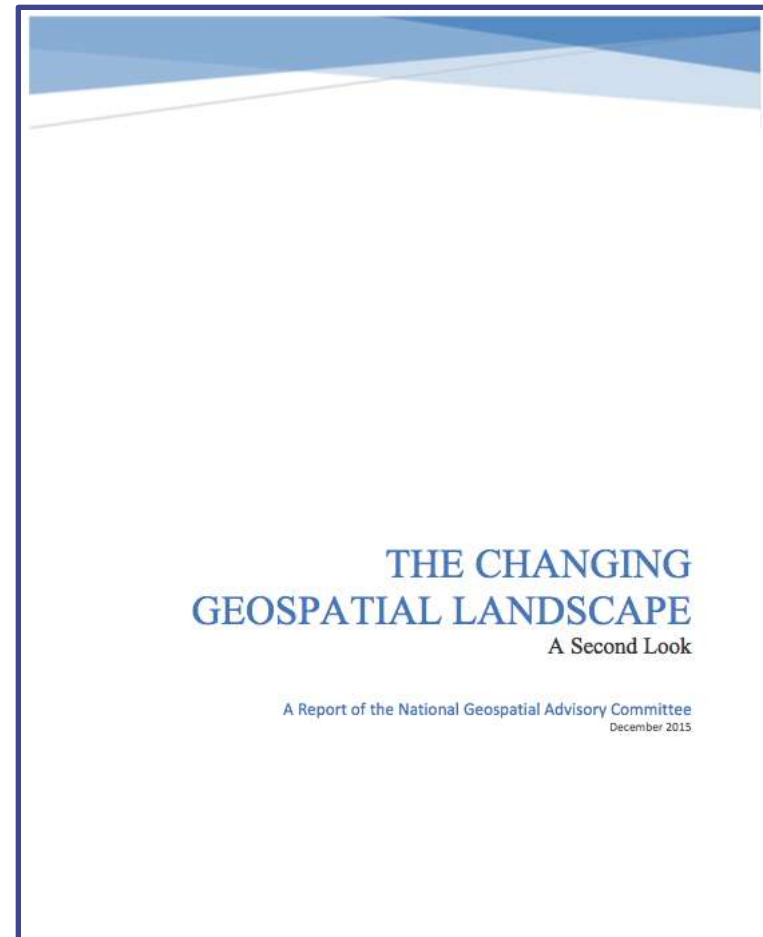
Contact: John Mahoney, FGDC OS, jmahoney@usgs.gov

National Geospatial Advisory Committee (NGAC)

Appointments:

◆ NGAC Leadership Appointments (January 2016)

- Chair: Julie Sweetkind-Singer, Stanford University
- Vice-Chair: Keith Masback, U.S. Geospatial Intelligence Foundation

◆ NGAC Membership Appointments (February 2016)

- 14 new & reappointed members
- Approved by DOI, announcement pending

NGAC Charter:

◆ Renewed NGAC Charter approved by Secretary of Interior (January 2016)

- Charter must be renewed every 2 years. No significant changes.

Contact: John Mahoney, FGDC OS, jmahoney@usgs.gov

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National Geospatial Advisory Committee (NGAC)

2016 FGDC Guidance to NGAC

- Guidance based upon inputs from FGDC leadership, FGDC agencies, and NGAC leadership and members.

- Draft Guidance Topics:
    - NSDI Strategic Plan Framework
        - Feedback on current NSDI strategic plan/NGDA plan
        - Input on strategic opportunities to promote NSDI sustainability and continuity
        - Outreach to organizations represented on the NGAC
    - Transition Recommendations
    - FGDC Standards Activities
    - Landsat Advisory Group
    - Ongoing Activities (GeoPlatform, Nat. Address Database, etc.)

- Guidance to be completed Feb. 2016

Contact: John Mahoney, FGDC OS, jmahoney@usgs.gov

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National Geospatial Advisory Committee (NGAC)

◆ Tentative NGAC Meeting Dates:

- April 6-7 (Washington, DC)
- June 14-15 (Washington, DC)
- Sept 27-28 (Shepherdstown, WV)
- December Webinar Meeting (date TBD)

Contact: John Mahoney, FGDC OS, jmahoney@usgs.gov

Coordination Group Charter

- The CG voted on January 22 to approve the new version of its Charter.

- The new version of the CG Charter pending Steering Committee approval is available at http://www.fgdc.gov/participation/coordination-group/draft-fgdc-cg-charter-revised-20160112.pdf

Coordination Group Meeting Dates

> **2016 CG Meeting Calendar available on FGDC website**
> - **February 9, 2015**
> - **March 8, 2015**
> - **April 12, 2015**
> - **May 10, 2015**
> - **June 7, 2015**
> - **July 12, 2015**
> - **August 9, 2015**
> - **September 13, 2015**
> - **October 11, 2015**
> - **November 8, 2015**
> - **December 13 , 2015**

Contact: Lucia Foulkes, FGDC OS, lfoulkes@usgs.gov

FGDC Business Update

- 2014 GAO Engagement
- NGDA Management Plan Activities
- NSDI Strategic Plan Update
- 2015 FGDC Annual Report
- Doug D. Nebert NSDI Champion of the Year Award
- Coordination Group Charter
- FGDC Standards Update

2014 GAO Engagement – Actions Status

UPDATE: The link to the 2015 NSDI Strategic Plan FY 2015 Status Report was shared with the GAO. http://www.fgdc.gov/nsdi-plan/index_html

Four recommendations to FGDC - GAO report March 2015 (GAO-15-19)

◆ Correct search function on Geospatial Platform and monitor regularly

  ▪ Technical, and catalog record content improvements: on-going

◆ Regular collection of Geospatial Platform performance measures with reports to Steering Committee

  ▪ Metrics and dashboards being designed and developed

◆ Create address data theme and associated subcommittees and working groups to further a national address database

  ▪ Pilots being led by DOT and the Census Bureau continue

◆ NDOP to reassess the feasibility of the Imagery for the Nation initiative, identify discrete steps that could be taken to further a national imagery program for all levels of government

  ▪ Initial assessment provided to SC and CG in September

  ▪ Co-leadership of the Imagery theme and changes in the subcommittee structure to include satellite expertise in discussion

National Geospatial Data Asset (NGDA) Management Plan

February 9, 2016

Coordination Group Meeting

NGDA Management Plan - Current Activities

◆ Analyzing results of NGDA Lifecycle Maturity Assessment
  - Follow up session on Feb. 18

◆ Final Dataset and Theme Summary reports shared with Theme Leads and Dataset Managers at Jan meeting
  - Theme Leads socializing with agencies
  - Reports will be posted internally by end of Feb.

◆ LMA Performance Dashboard
  - Updates will be included in GeoPlatform.gov Release 3 or in future releases

Contact LMA Help Desk for Questions:
NGDA_LMA_help@fgdc.gov

NGDA Management Plan - Current Activities

◆ NGDA Web Services and Metadata Project
- Goal: Provide reliable web services with quality metadata to improve the GeoPlatform experience for all NGDA Datasets by 2016
- Completed - Phase 1: Initial spreadsheet of NGDA web services and metadata information
- In work - Phase 2: Assessing spreadsheet and developing activity plan to work with Theme Leads and Dataset Managers to meet goal

◆ Proposed Change to Biota Theme –
- Presented at Dec. 9 CG and Jan. 21 NGDA Theme Lead meetings
- Marcia McNiff (mmcniff@usgs.gov) collecting comments until Feb. 12

◆ Theme Strategic Plans
- Plans are due June 30, 2016

◆ Theme Lead Meeting
- February 25, 1 to 3 pm, Esri FedGIS Conference, Theater 306
- Facilitated discussion - NGDA Management Plan Evaluation Project

FedGIS 2016

February 24-25, 2016 | Walter E. Washington Convention Center

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January NGDA Inventory Updates

◆ Theme Lead Changes

  ■ Geodetic Control Theme Lead

   ◆ Neil Weston on detail - Yan Wang (yan.wang@noaa.gov) acting Theme Lead

  ■ Water – Inland Theme

   ◆ Bill Wilen retired – Mitch Bergeson (Mitch_Bergeson@fws.gov) iacting Theme Lead

◆ Dataset Manger Changes

NGDA Dataset	NGDA Theme	Change
National Hydrography Dataset	Water – Inland	Jeff Simley retired - Stephen Aichele, acting (saichele@usgs.gov)
Omernik's Level III Ecoregions Of The Conterminous United States	Biota	Marc Weber replaced by Randy Comeleo (Comeleo.Randy@epa.gov)

Points of Contact and Links

What	Who
Dataset/Service Registration in GeoPlatform.gov/Data.gov Catalog	Gita Urban-Mathieux, burbanma@usgs.gov; Jen Carlino, jcarlino@usgs.gov
Geoplatform.gov – Login registration and NGDA Community and Theme Lead Collaboration pages	Gita Urban-Mathieux (Federal Sponsor), burbanma@usgs.gov; GeoPlatform Service Desk, servicedesk@geoplatform.us
Geoplatform.gov – Theme Community pages	Managed by Theme Leads Support - GeoPlatform Service Desk, servicedesk@geoplatform.us
NGDA Lifecycle Maturity Assessment (LMA), including Dashboard and Reports	NGDA LMA Help Desk, NGDA_LMA_help@fgdc.gov

NGDA Community Links	
Public Site	https://www.geoplatform.gov/A-16-NGDA-Theme-Community
Private Site – login required	https://www.geoplatform.gov/theme-lead/theme-lead-home

Dataset Report

◆ Overall 26 comments &

6 people

- Content/Input
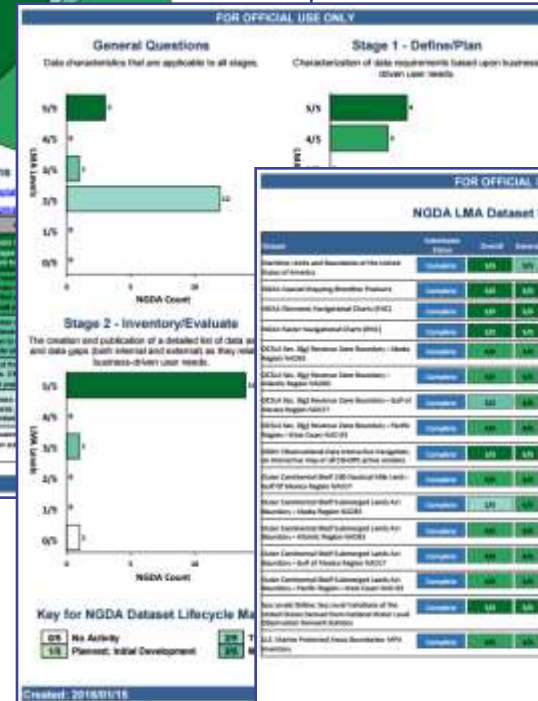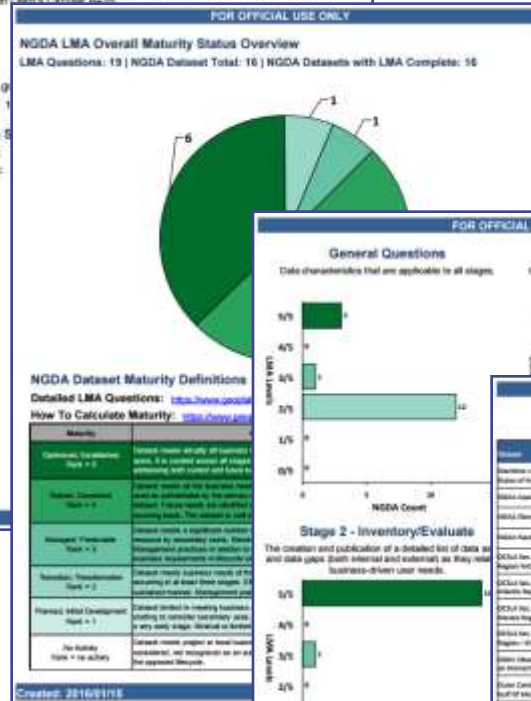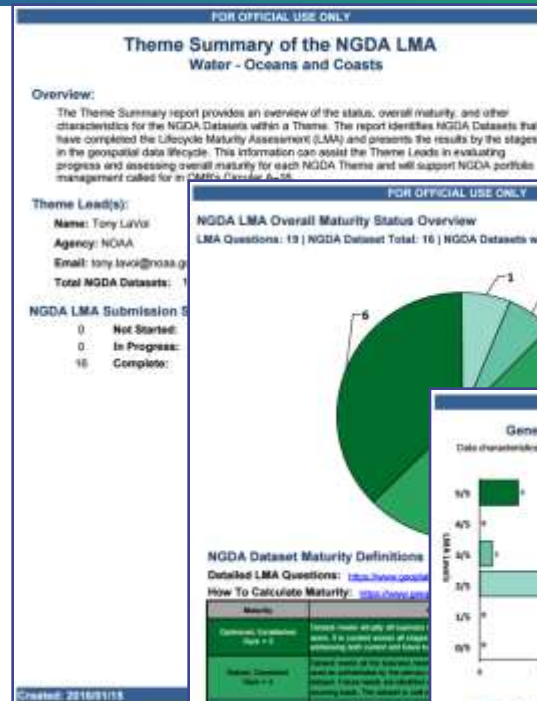- Formatting
- General Questions/Feed

◆ General information

- Title
- Points of Contact
- Metadata links

◆ LimeSurvey LMA output

- 19 Questions with maturity
- Justification Comments
- Attachments

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Theme Summary Report

- ◆ Overall 47 comments & 14 people
  - Content/Input
  - Formatting
  - General Questions/Feedback
- ◆ General information
  - Theme Lead
  - Submission Status
- ◆ Maturity Status Overview
  - Each Dataset maturity in pie chart
- ◆ LMA questions in bar chart
  - # of Datasets at each level in Stages
- ◆ Dashboard Summary
  - Table displays maturity for each dataset in Theme

NGDA Management Plan Activities- Coordination Group Tasks

◆ As the plan progresses additional tasks may be added.

◆ Table does not include tasks where the CG is only providing a support role to the task.

Action from the NGDA Management Plan	Tasks	Responsibility	Task Status
Action 1A.1: Develop a Process for Selecting and Maintaining Executive NGDA Theme Champions, NGDA Theme Leads, and NGDA Dataset Managers	Review process to replace/update Theme Lead Agency, Executive Theme Champions, Theme Leads, Dataset Managers	Coordination Group	Complete 10/3/14
Action 1B.3:Develop an Approval Process for Nomination/Removal of NGDA Datasets within the A–16 NGDA Portfolio	Coordination Group approval vote	Coordination Group	Complete 3/30/15
Action 1D.1: Develop NGDA Dataset Maturity Annual Assessment Survey and Tool	Coordination Group approval vote	Coordination Group	Complete 12/22/14
Action 1D.2: Develop NGDA Dataset Report Template and Tool	Coordination Group review and comment - LMA reports (Dataset and Theme Summary) and Dashboard	Coordination Group	Complete 11/20/15
Action 1D.3: Develop NGDA Theme Administrative Maturity Assessment Survey and Tool	Review of Theme Summary report	Coordination Group	Complete 11/20/15
	Coordination Group review and comment, work with Theme Leads to discuss comments if needed	Coordination Group	Not started - review updated version
	Coordination Group approval vote	Coordination Group	Not started
Action 1D.4: Develop Support Theme Strategic Plan Template and Tool	Coordination Group review template draft	Coordination Group	Complete 4/10/15
	Coordination Group approval vote	Coordination Group	Complete 7/24/15
Action 1D.5: Develop Annual Theme Report Template and Tool	Coordination Group review and comment on Theme Summary Report which is a first prototype of the Annual NGDA Theme Report	Coordination Group	Complete 11/20/15
	Coordination Group review and comment – Will reports created with the template meet their needs?		Not started

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NGDA Management Plan Activities- CG Tasks continued

◆ As the plan progresses additional tasks may be added.

◆ Table does not include tasks where the CG is only providing a support role to the task.

Action from the NGDA Management Plan	Tasks	Responsibility	Task Status
Action 1D.6: Develop NGDA Services/Applications Investment Report Template, Tool, and Report	Coordination Group approval vote	Coordination Group	Not started
Action 1D.7: Develop NGDA Portfolio Summary Report Template and Tool	Coordination Group review and comment - Does report meet their needs?	Coordination Group	Not started
Action 1E.1: Review/Revise the Definition of Geospatial Investment and Budget Reporting Codes	Request for information, links, docs related the authorizing legislation language that may provide definitions related to geospatial activities	Coordination Group	Complete 6/5/15

Status of 27 NGDA Management Plan Actions
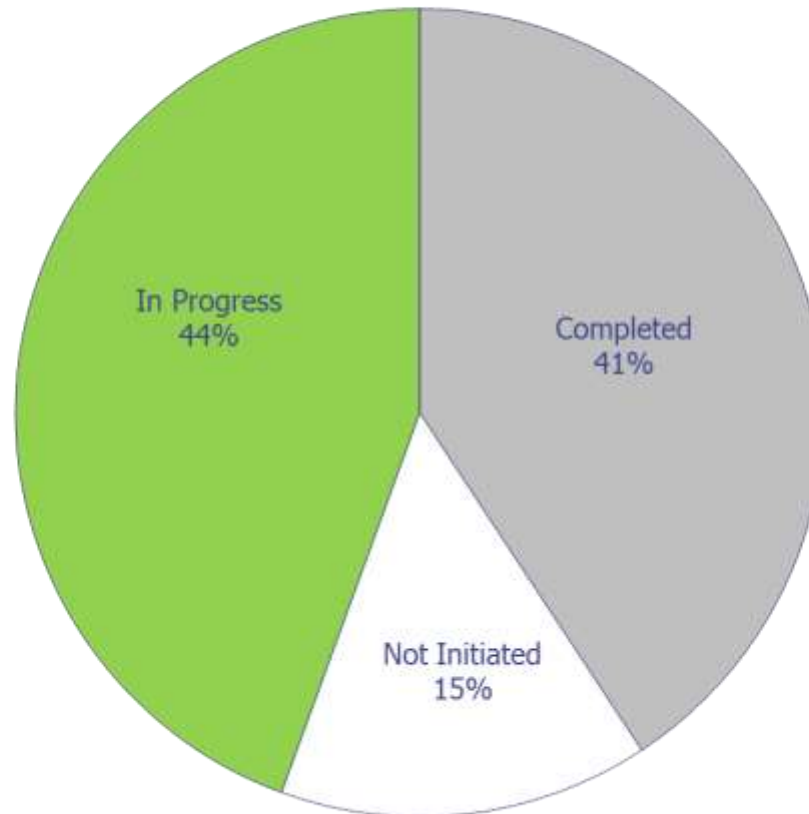
In Progress
44%

Completed
41%

Not Initiated
15%

22

As of February 2, 2016

NGDA Management Plan Actions

Completed Actions

Action from the NGDA Management Plan	NDSI SP Task	Start Date	Completion Date	Responsibility	Progress
Action 2C.3: Establish and Maintain Coordination Mechanism across NGDA Themes	n/a	FY13 Q2	FY14 Q2	Theme Lead	Complete 5/13/14
Action 1B.1: Identify Initial Baseline of NGDA Datasets	2.1.1.1	FY12 Q1	FY14 Q3	Theme Lead	Complete 7/2/14
Action 1C.1: Activate NGDA Theme Lead Collaboration Community on Geoplatform.gov	n/a	FY13 Q2	FY14 Q3	GeoPlatform Team	Complete 4/23/2014
Action 2C.1: Manage and Maintain Content for each NGDA Theme Public Website on GeoPlatform.gov	n/a	FY14 Q2	FY14 Q3	Theme Lead	Complete 9/3/2014
Action 1A.1: Develop a Process for Selecting and Maintaining Executive NGDA Theme Champions, NGDA Theme Leads, and NGDA Dataset Managers	2.1.2.1	FY12 Q1	FY14 Q4	Theme Lead Agency	Complete 10/3/2014
Action 1B.3: Develop an Approval Process for Nomination/Removal of NGDA Datasets within the A–16 NGDA Portfolio	n/a	FY14 Q3	FY15 Q2*	NGDA Theme Leads & Dataset Managers, CG, SteerCom	Complete 4/14/15
Action 1C.2: Develop A–16 Theme Collaboration Community for Templates and Tools on GeoPlatform.gov	n/a	FY13 Q4	FY16 Q3	GeoPlatform Team; Theme Leads with support from Dataset Managers	Complete 4/20/15
Action 1D.1: Develop NGDA Dataset Maturity Annual Assessment Survey and Tool	2.1.4.1	FY13 Q2	FY15 Q3*	Dataset Managers, Theme Leads, GeoPlatform Team	Complete 5/26/15
Action 1B.2: Register Baseline NGDA Datasets and Services Metadata on the GeoPlatform.gov/Data.gov Catalog with Appropriate NGDA and Theme "tags"	n/a	FY12 Q1	FY15 Q2*	NGDA Dataset Managers, NGDA Theme Leads, GeoPlatform.gov Team	Complete 7/16/15
Action 1D.4: Develop NGDA Strategic Theme Plan Template and Tool	2.1.4.4	FY14 Q4	FY15 Q3*	NGDA Theme Leads, GeoPlatform.gov Team	Complete 8/13/15

*Completion date realigned from the NGDA MP

NGDA Management Plan Actions

Completed Actions

Action from the NGDA Management Plan	NDSI SP Task	Start Date	Completion Date	Responsibility	Progress
Action 2A.1: Complete and Submit NGDA Dataset Maturity Annual Assessment	2.1.1.2	FY15 Q1	FY15 Q4*	NGDA Dataset Managers	Complete 10/30/2015

*Completion date realigned from the NGDA MP

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NGDA Management Plan Actions

Action from the NGDA Management Plan	NDSI SP Task	Start Date	Completion Date	Status/Notes	Driver for Realignment of Dates	Responsibility
Action 1D.2: Develop NGDA Dataset Report Template and Tool	2.1.4.2	FY14 Q3	FY16 Q1*	Finalizing Dataset and Theme Summary Report from LMA survey.	Completion of initial baseline assessments (Action 2A.1)	NGDA Theme Leads, NGDA Dataset Managers, GeoPlatform.gov Team
Action 1D.3: Develop NGDA Theme Administrative Maturity Annual Assessment Survey and Tool	2.1.4.3	FY14 Q1	FY16 Q1*	Draft Survey doc complete. Assessing next steps.	Completion of initial baseline assessments (Action 2A.1)	NGDA Theme Leads, GeoPlatform.gov Team
Action 1D.5: Develop Annual NGDA Theme Report Template and Tool	2.1.4.5	FY14 Q4	FY16 Q2*	Theme Summary report is a first prototype of the Annual NGDA Theme Report	Need to have Theme Assessment and Dataset Maturity Assessments complete	NGDA Theme Leads, GeoPlatform.gov Team
Action 1D.6: Develop NGDA Services and (or) Applications Investment Report Template, Tool, and Report	2.1.4.6	FY15 Q3	FY16 Q2		n/a	GeoPlatform.gov Team, Executive NGDA Theme Champions, NGDA Theme Leads
Action 1D.7: Develop NGDA Portfolio Summary Report Template and Tool	2.1.4.7	FY15 Q3	FY16 Q3		n/a	GeoPlatform.gov Team, FGDC Steering Committee, Executive NGDA Theme Champions, NGDA Theme Leads

*Completion date realigned from the NGDA MP

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NGDA Management Plan Actions

Action from the NGDA Management Plan	NDSI SP Task	Start Date	Completion Date	Status/Notes	Driver for Realignment of Dates	Responsibility
Action 1E.1: Review/Revise the Definition of Geospatial Investment and Budget Reporting Codes	2.1.3.1	FY14 Q3	FY16 Q2*	In progress. Geo Investment Definitions doc complete. See Action 1E.2	Interagency Team established end of FY15 Q1	FGDC Steering Committee, OMB
Action 1E.2 Apply the Geospatial Investment Definition and Budget Reporting Codes	2.1.3.2	FY15 Q2	FY16 Q4	Nov 19 ExCom agreed on next steps and to incorporate Geo Investment Definitions into GIRA		OMB, Theme Lead Agency(s) with support from FGDC Steering Committee
Action 2A.2: Complete and Submit NGDA Theme Administrative Maturity Annual Assessment	2.1.1.3	FY15 Q1	FY16 Q2*	Theme Administrative Maturity Assessment Survey in work	Team focusing on NGDA Dataset Maturity Annual Assessment and development of Theme Administrative Maturity Assessment	NGDA Theme Leads
Action 2B.1: Complete and Submit NGDA Strategic Theme Plan	n/a	FY15 Q3	FY16 Q3	Transportation and Geodetic Control Theme Strategic Plans complete	n/a	NGDA Theme Leads with support from NGDA Dataset Managers, Stakeholders, and COIs

*Completion date realigned from the NGDA MP

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NGDA Management Plan Actions

Action from the NGDA Management Plan	NDSI SP Task	Start Date	Completion Date	Status/Notes	Driver for Realignment of Dates	Responsibility
Action 2C.2: Establish and Engage the NGDA Theme Committees and Communities to Further Strategic Planning Efforts	n/a	FY13 Q2	FY16 Q1	Many of the NGDA Themes already have FGDC Thematic Subcommittees, FGDC Working Groups, Stakeholders, COIs, or other forums engaged. The FGDC Coordination Group is beginning to revitalize the group and look at the way the Themes and other groups are organized	n/a	NGDA Theme Leads with support from NGDA Dataset Managers and the GeoPlatform.gov Team
Action 2D.1: Complete and Submit Annual NGDA Dataset Report	n/a	FY15 Q2	FY16 Q2*		Need to complete Dataset Report Template complete (Action 1D.2)	NGDA Dataset Managers
Action 2D.2: Complete and Submit Annual NGDA Theme Report	n/a	FY15 Q4	FY 16 Q3		n/a	NGDA Theme Leads

*Completion date realigned from the NGDA MP

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NGDA Management Plan Actions

Action from the NGDA Management Plan	NDSI SP Task	Start Date	Completion Date	Status/Notes	Driver for Realignment of Dates	Responsibility
Action 2D.3: Report NGDA Theme Progress to FGDC Steering Committee and FGDC Coordination Group	n/a	FY13 Q4	FY 16 Q4	37% Themes reported to Steering Committee.	n/a	Executive NGDA Theme Champions, NGDA Theme Leads
Action 2D.4: Compile NGDA Theme Reports into an A–16 NGDA Portfolio Summary	n/a	FY16 Q4	FY17 Q3		n/a	GeoPlatform.gov Team with input from FGDC Steering Committee and Executive NGDA Theme Champions
Action 2E.1: Develop the A–16 NGDA Portfolio-level Processes, Reporting Requirements, and Roles and Responsibility Requirements for Federal Geospatial Portfolio Management	2.1.3.3	FY14 Q3	FY16 Q4*	Several of the reporting requirements are underway in other Actions	This action relies on the completion of other related dependent actions that are currently underway (1E.1, 1E.2)	FGDC Steering Committee, Executive NGDA Theme Champions
Action 2E.2: Develop a Process for Federal Agencies to Identify Resources Required for Managing Geospatial Data Beyond Their Agency's Mission	2.1.3.4	FY15 Q1	FY16 Q4		n/a	FGDC Steering Committee, Executive NGDA Theme Champions, NGDA Theme Lead Agency(s)

*Completion date realigned from the NGDA MP

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NSDI Plan - FY 2015 Status Report

- Completed December 2015
- Summarizes FGDC performance in addressing FY 2014 and FY 2015 targets
- Includes updated FY 2016 targets
- Distributed to FGDC community, NGAC, and GAO
- Status report summarized in FGDC 2015 Annual Report

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FY 2015 Status Report - Results

FY 2014: The status report includes 28 tasks for FY 2014. Of these tasks, 25 reported as complete, and 3 reported as in progress.

25 Complete	3 in Progress

FY 2015:   The status report includes 36 tasks for FY 2015. Of these tasks, 24 reported as complete, and 12 reported as in progress

24 Complete	12 in Progress

FY 2016:   The status report includes 24 tasks for FY 2016. Of these tasks, 3 reported as complete, and 21 reported as on schedule

3 Complete	21 On Schedule
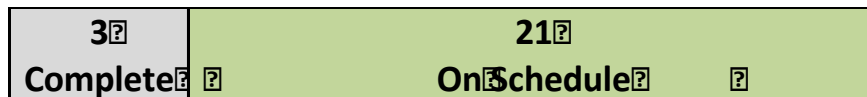
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2015 FGDC Annual Report

- ◆ PDF draft shared with CG

- ◆ Please sent comments to Gita Urban-Mathieux no later than February 19

- ◆ Previous reports available at
  - ▪ www.fgdc.gov/library/whitepapers-reports/annual reports

Contact: Gita Urban-Mathieux, FGDC, burbanma@fgdc.gov
Read ahead: none

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Doug D. Nebert NSDI Champion of the Year Award

◆ **Nomination information to be posted on FGDC Web site**

◆ Will recognize individual or team representing Federal, State, Tribal, regional, and (or) local governments, academia, or nonprofit and professional organizations

◆ Development of an innovative and operational geospatial tool, application, or service capability used by multiple organizations

◆ Award based on the following foundational precepts

- Innovation and vision
- Interoperability
- Use of standards
- Advancement of NSDI principles
- Service to communities of users
- Developed once, used by many
- Improved performance and service
- Real-world application

◆ First award - Summer of 2016

Contact: Gita Urban-Mathieux (burbanma@usgs.gov) or Rich Frazier(efrazier@usgs.gov)

FGDC Standards Update – February 2016

◆ Public review of Address Data Standard

◆ Events

Contact: Julie Binder Maitra, FGDC OS, jmaitra@fgdc.gov, 703-648-4627, www.linkedin.com/in/juliebindermaitra

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Public review of Address Data Standard

◆ United States Thoroughfare, Landmark, and Postal Address Data Standard (Address Data Standard)

   ■ Public review ends April 25, 2016

   ■ Federal Register notice published https://federalregister.gov/a/2016-01337

Public review of Address Data Standard

◆ **United States Thoroughfare, Landmark, and Postal Address Data Standard (Address Data Standard)**

- The primary purposes of the Address Data Standard are to develop content specifications for address information, provide classifications for different types of addresses, establish appropriate standards and measures for evaluation of address data quality, and support exchange of address data.

- Over the last 5 years, users and the authors have identified a number of desirable minor corrections to the Address Data Standard.

- The U.S. Census Bureau has proposed adding a new Map Position element.

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Events

Event	Start Date	End Date	Location
OGC	11/30/2015	12/4/2015	Sydney, Australia
ISO TC 211 41th Plenary and meetings	12/7/2015	12/11/2015	Sydney, Australia
INCITS L1/U.S. TAG	12/18/2015		Esri, Vienna, VA
OGC TC Briefing #OGCdc16	2/4/2016		webinar
GWG 16-1 Voting Meeting	2/17/2016		Chantilly, VA
Esri Federal UC #FedGIS	2/24/2016	2/25/2016	
OGC #OGCdc16	3/7/2016	3/11/2016	World Bank, Washington, DC
OGC North American Forum	3/7/2016		World Bank, Washington, DC
INCITS L1/U.S. TAG	4/29/2016		Esri, Vienna, VA
INCITS L1/U.S. TAG	5/23/2016		USGS, Reston, VA
ISO TC 211 42th Plenary and meetings	6/13/2016	6/17/2016	Tromsø, Norway

Questions???